Declassified in Part - Sanitized Copy Approved for Release 2012/04/10 : CIA-RDP78-03172A000300050036	25 X 1 6-6
COMPANIAL	
2 May 1957	
MEMORANDUM FOR: THE RECORD	
SUBJECT : Visit to	25X1
l. Time and Place of Meeting: The meeting was held at on 24 April 1957.	25 X 1
2. Attendance:	25X1 25X1
3. Discussion: Ad Hoc 25 - Wall Thickness measurement.	
	25X1
has studied the dampening problem and the problem of reducing or eliminating the shear wave, which is causing hash on the reflected signal. A shear wave is useful for finding cracks or fissures but is not useful for thickness measurements. In tests, has found that the shear wave is almost of the same magnitude	25X1
as the compression wave and that it has been dampening out the reflected wave. One way of eliminating the shear wave is to get	
as short a signal as possible. would like to obtain a pulse of less than 50 microseconds, but so far have not been able to obtain it.	25X1
Tests on 12" blocks revealed that the signal received	
through it was much stronger than necessary to obtain a good reflected signal. Then reduced the 700 volt pulse. They were using and have now found that from a 50 volt pulse, a signal on the order of several milivolts is received.	25 X 1
first approached the dampening problem by the use of	25 X 1
fluids. The crystal transducers were placed in glycerin filled plastic cases, but this method was not satisfactoryis now trying the use of two crystals. One crystal is placed on top of	25 X 1
the other. Both crystals are tuned to the same frequency. The top crystal is used to dampen and absorb energy. first tried shorting the top crystal, but later found that by matching the	25X1
008632	- "
ONE 37 BOD 35 BET BATE 23 JULY FO BY A 57 447 BHIS SEAD DEED OF TYPE OF THE DEED OF THE DEED OF THE DEED OF THE DEED OF THE HE 13-2 BETT DEED OF THE THE THE TOTAL THE THE TOTAL THE T	
Declassified in Part - Sanitized Copy Approved for Release 2012/04/10: CIA-RDP78-03172A000300050036	

Declassified in Part - Sanitized Copy Approved for Release 2012/04/10 : CIA-RDP78-03172A000300050036-6

COMPANIAL

MEMORANDUM FOR: THE RECORD		
SUBJECT : Visit to		2
	better mechanical dampening and energy s method appears to one answer to the	
done better on data interput ever, it was pointed out to t	arch of available literature, that they than the commercial field has. How-hem that the commercial fields main and fissures and not on accurate	2
	devoted its main effort on the dampening crystals with a higher frequency are	2
	d them to lower their frequency and see	2
if this will help control dam		2
	might have to design a negative resistance at the ones available on the commercial	2
market and so far have found		2
	TSS/APD	2
	199/ AFD	
Distribution: Orig Ad Hoc 25	155/ At D	
Distribution: Orig Ad Hoc 25 1 - AWS	155/ At D	
Orig Ad Hoc 25		